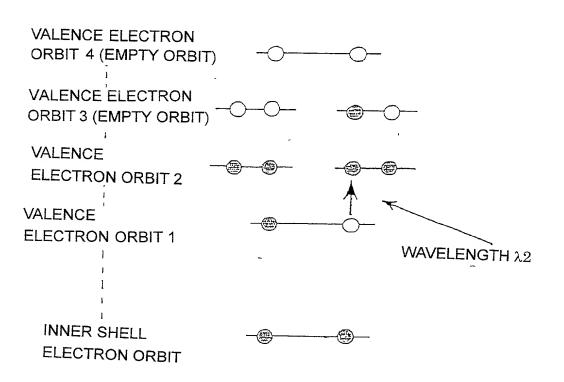
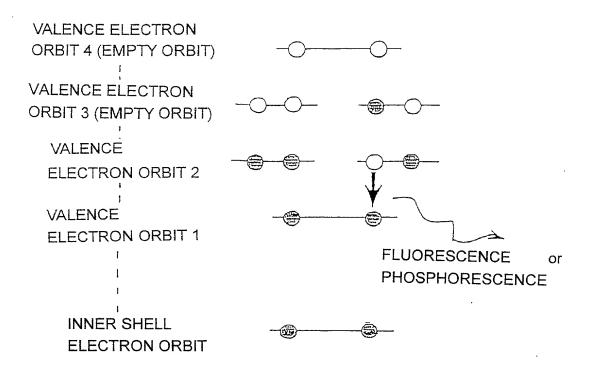


F I G. 2



F I G. 3



F | G. 4

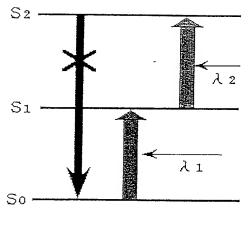


FIG. 5

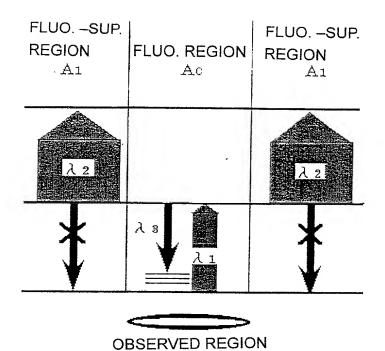
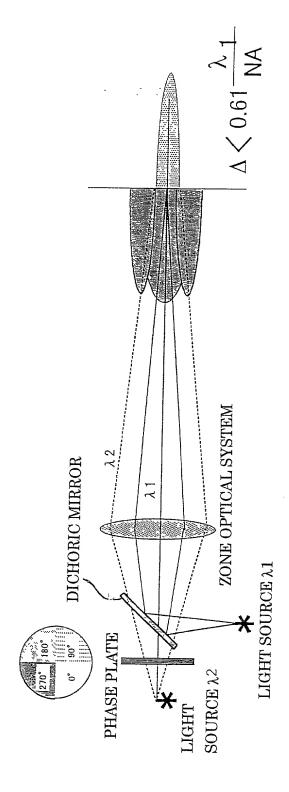
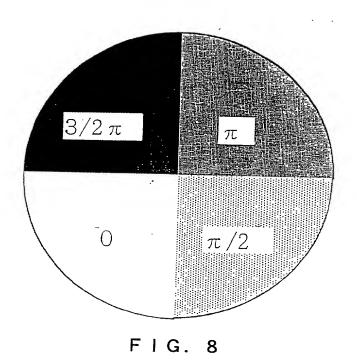
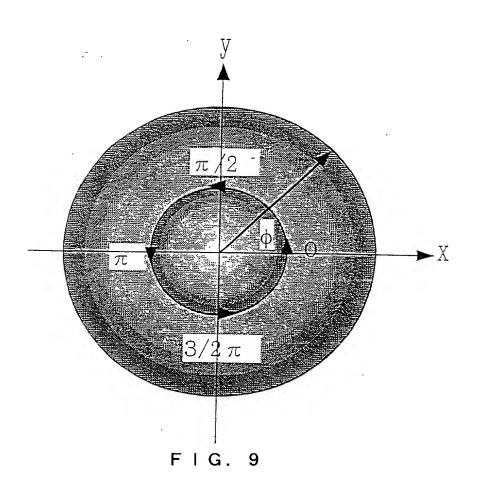


FIG. 6



F | G. 7





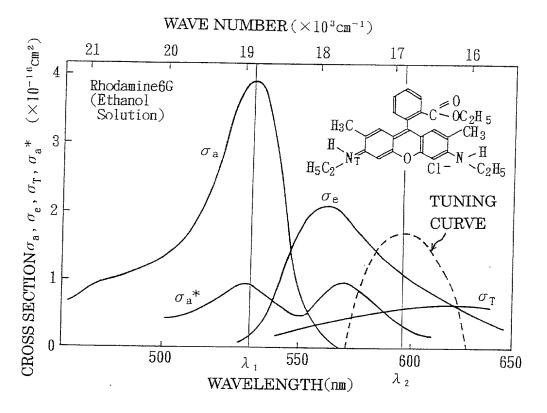
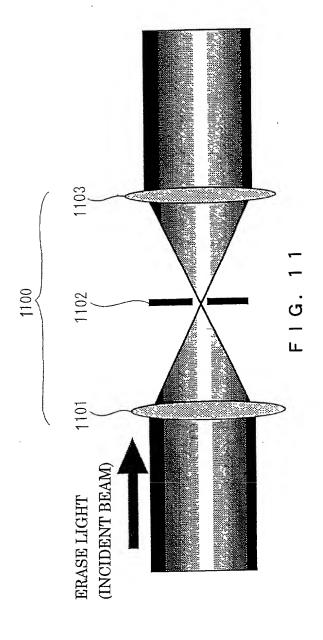
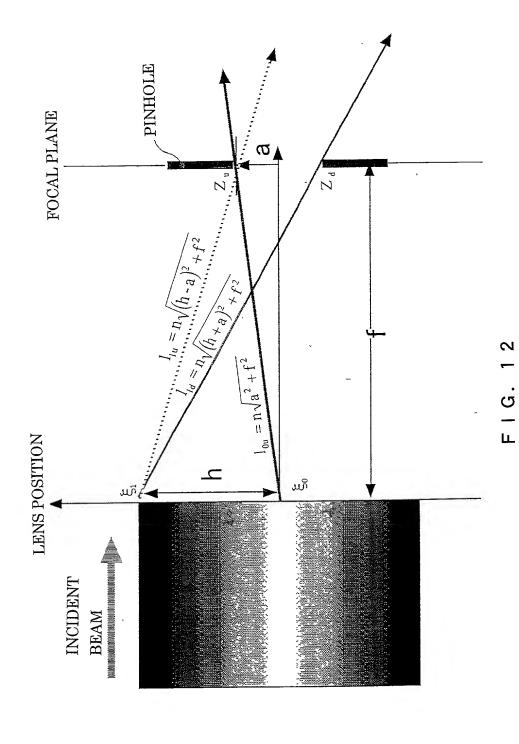
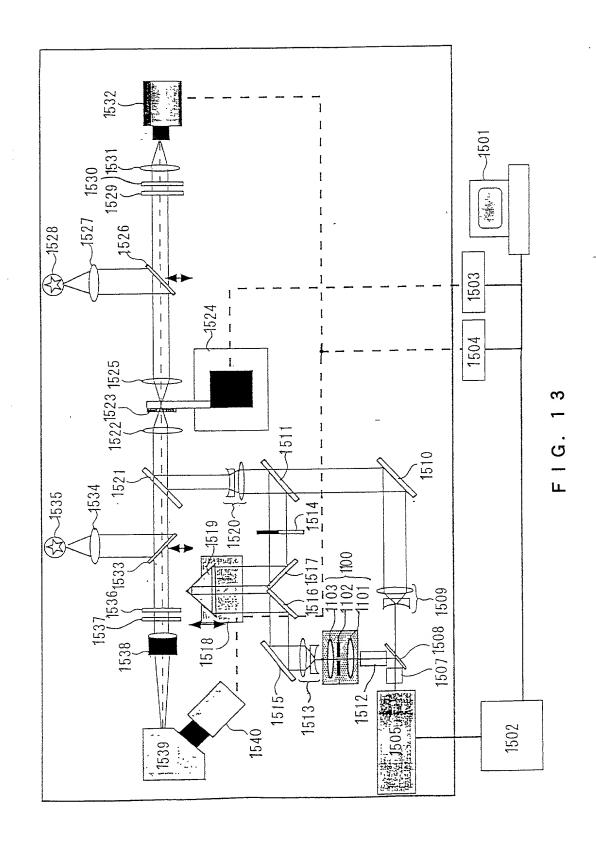


FIG. 10







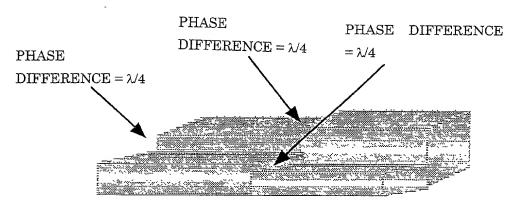
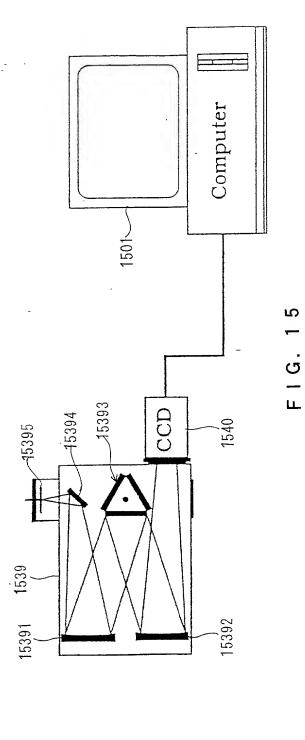
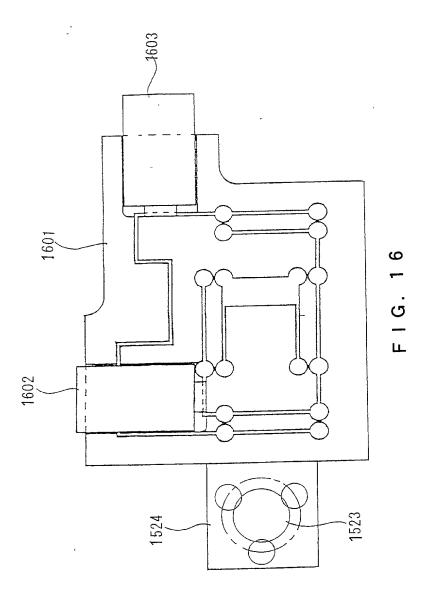


FIG. 14





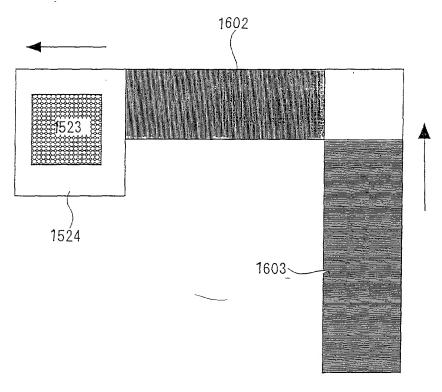
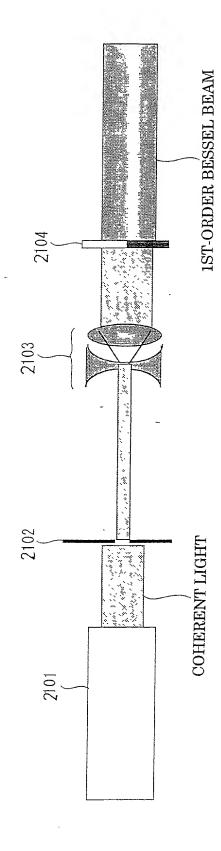
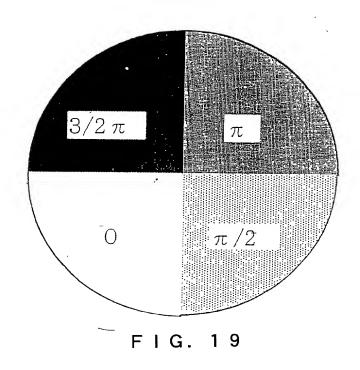


FIG. 17





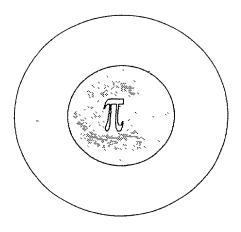
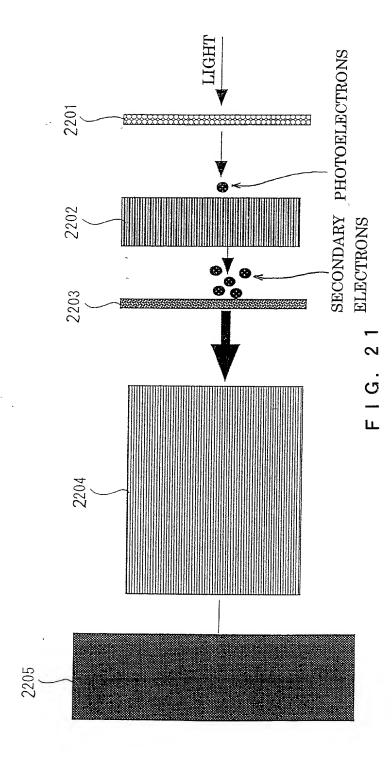


FIG. 20



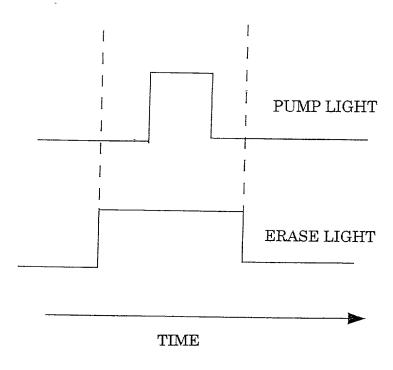


FIG. 22

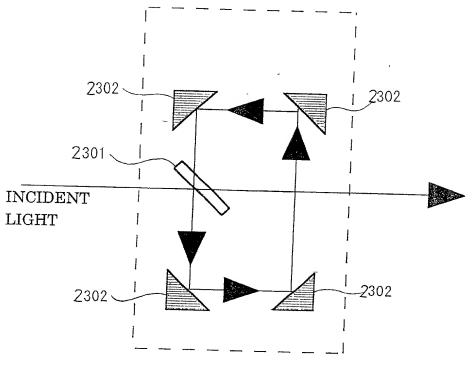


FIG. 23

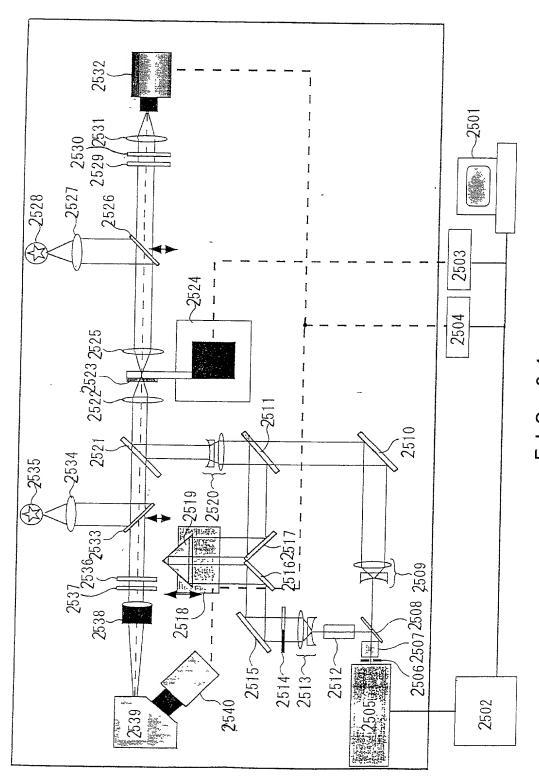


FIG. 24

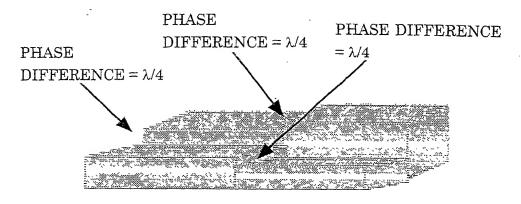
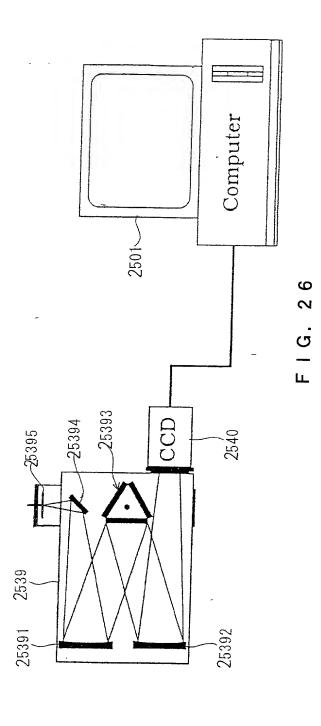
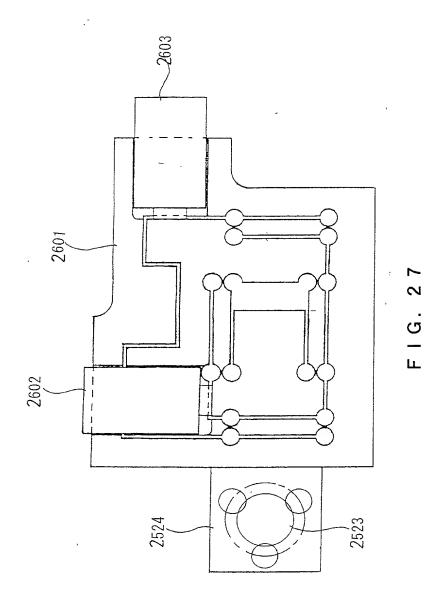


FIG. 25





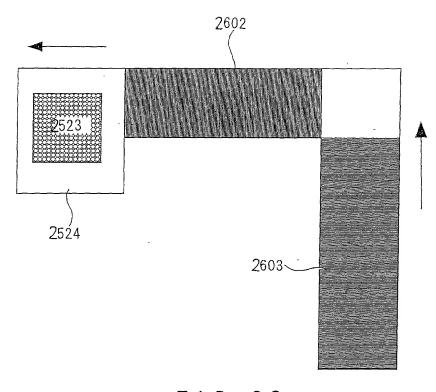
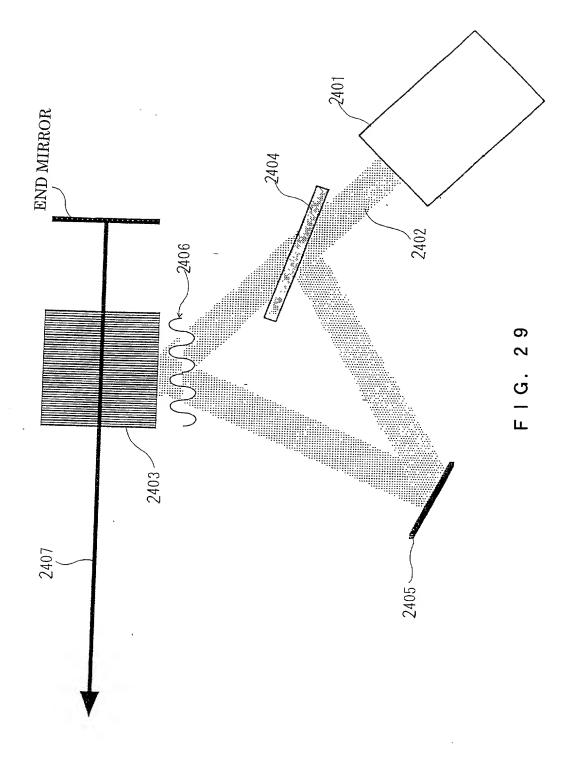
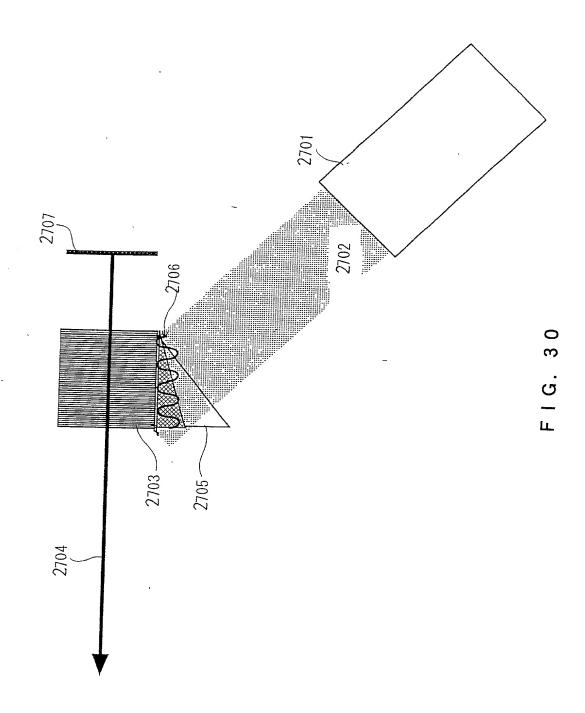
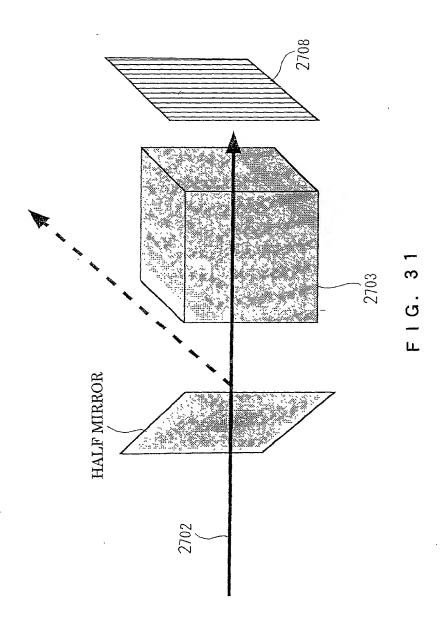
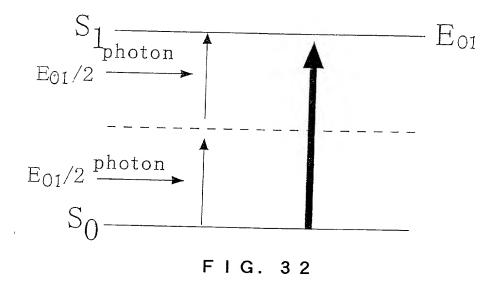


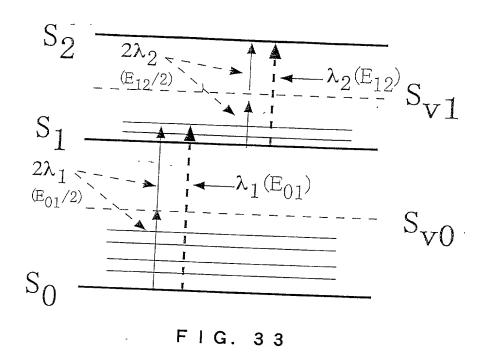
FIG. 28

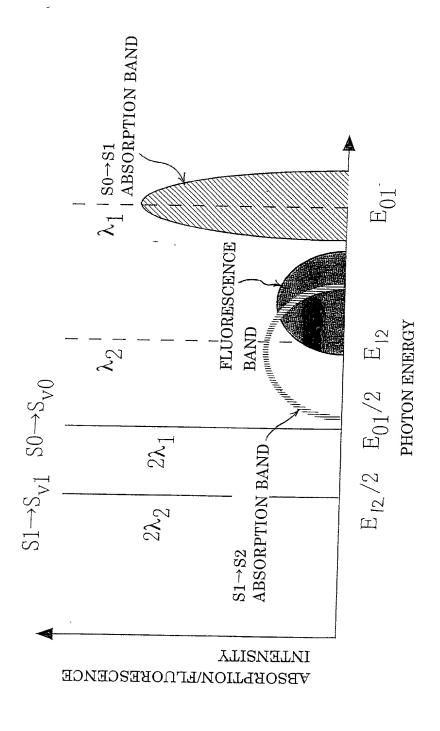




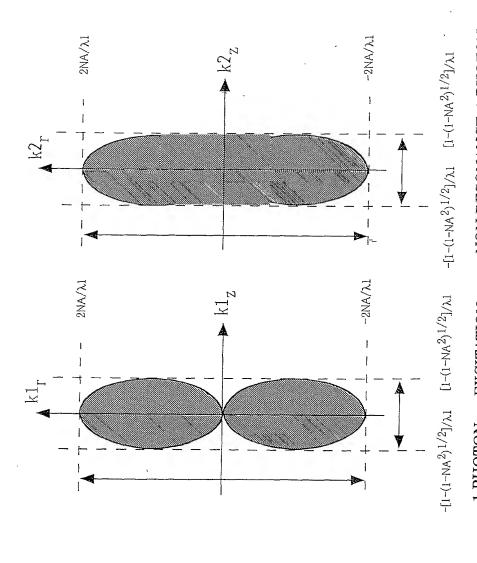








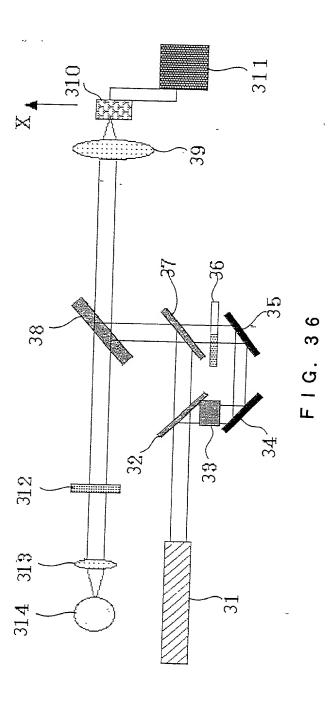
F I G. 34



(a) 1-PHOTON EXCITATION (b) NON-RESONANCE 2-PHOTON PROCESS

F1G. 35

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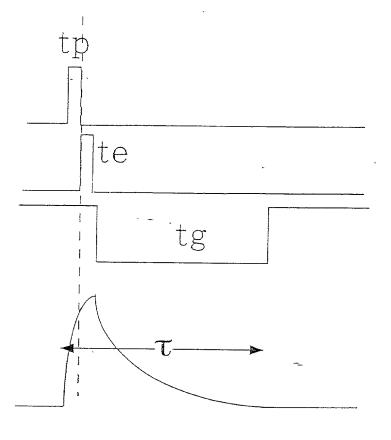


FIG. 37

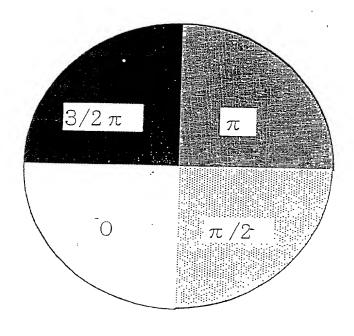


FIG. 38

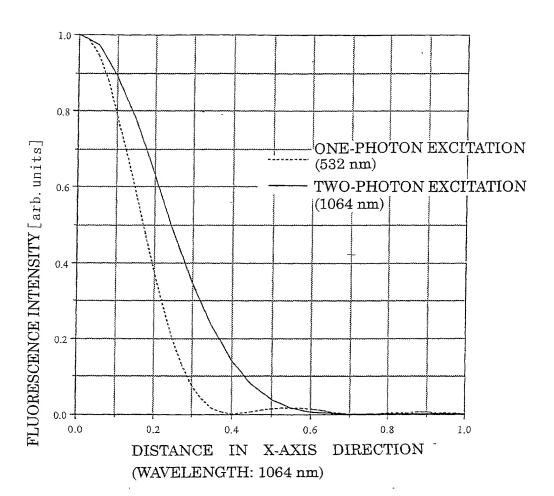
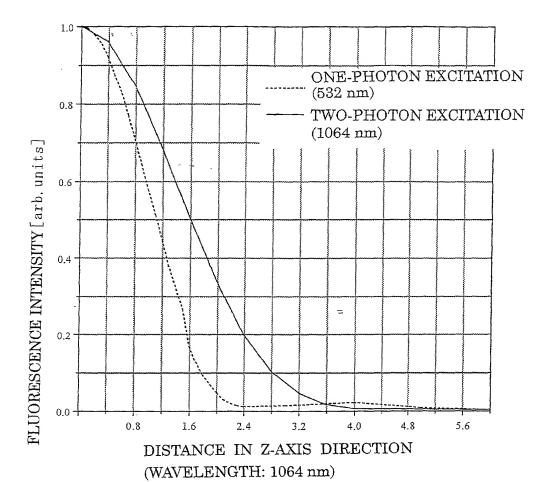


FIG. 39



F I G. 40

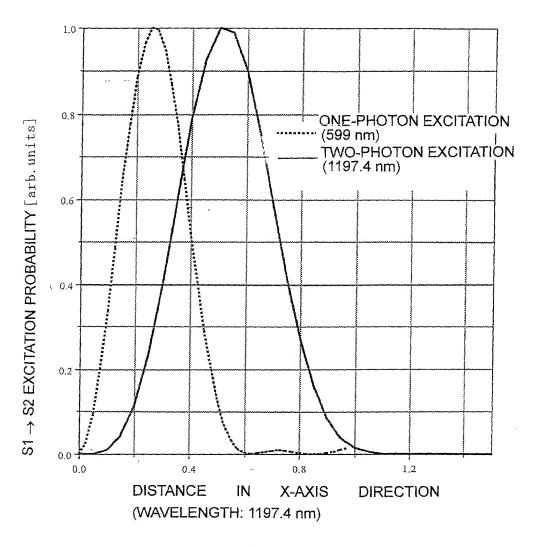


FIG. 41

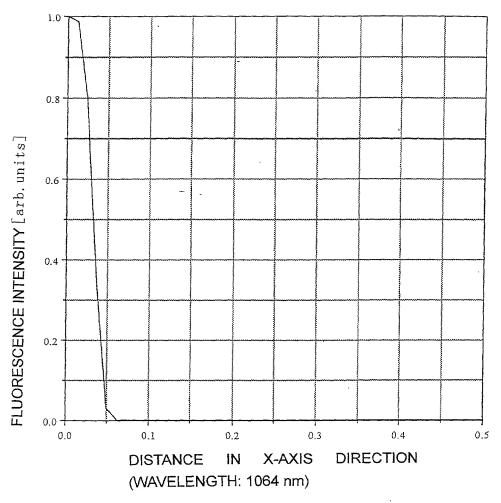
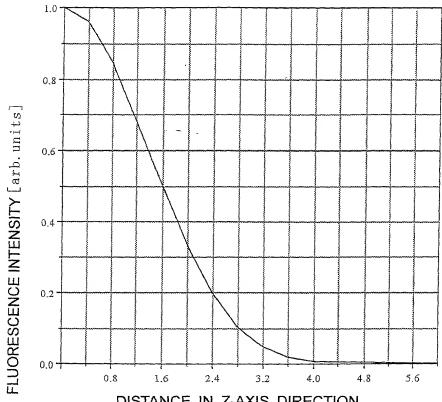
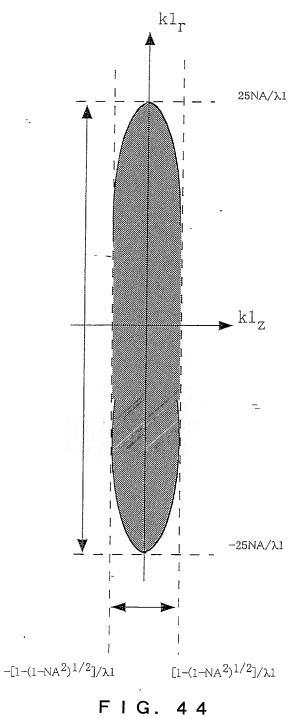


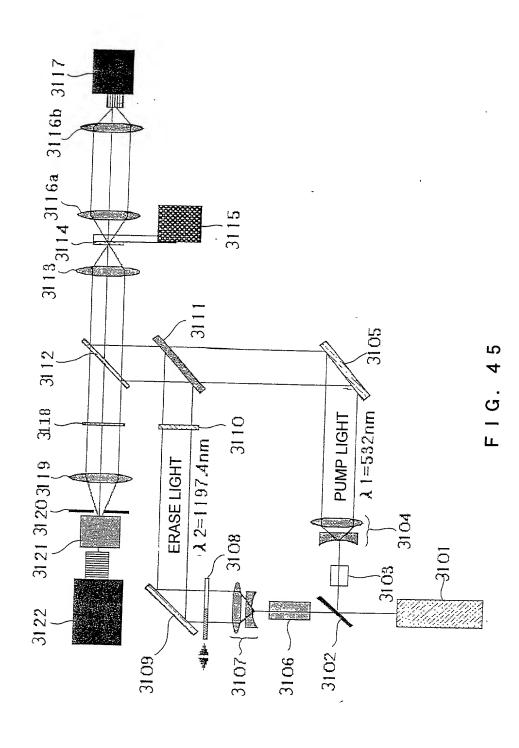
FIG. 42

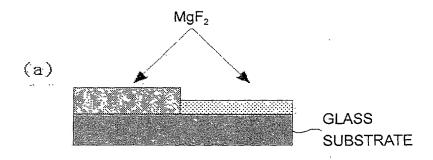


DISTANCE IN Z-AXIS DIRECTION (WAVELENGTH: 1064 nm)

FIG. 43







(b) 1576nm; 790nm 2364nm

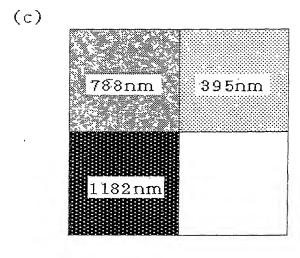


FIG. 46

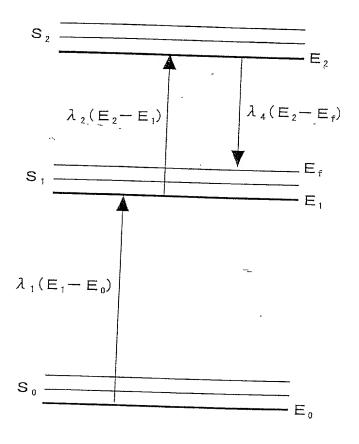
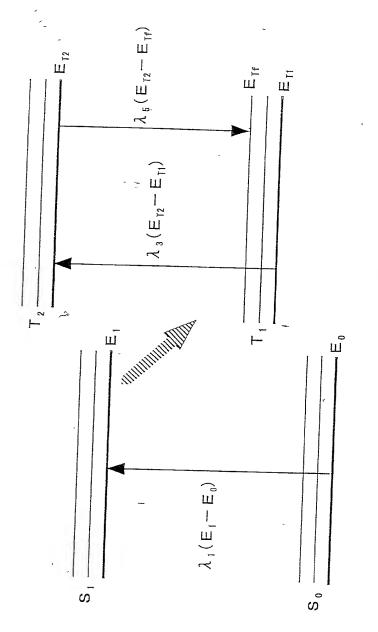


FIG. 47



F I G. 48

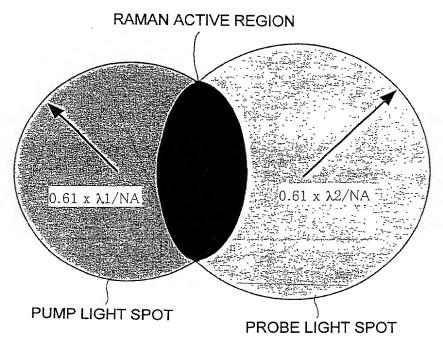
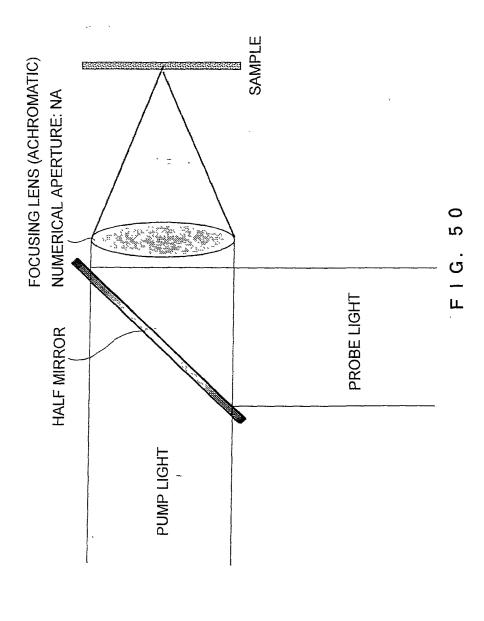
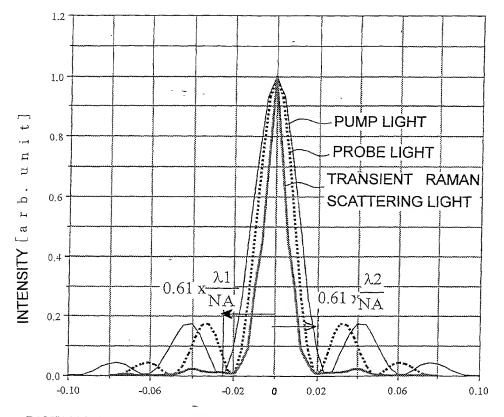


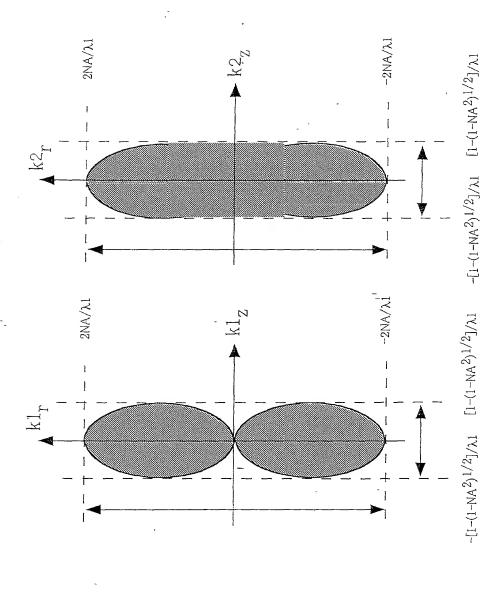
FIG. 49





DISTANCE FROM OPTICAL AXIS [arb. unit]

FIG. 51



(a)NORMAL ONE-PHOTON EXCITATION (b) TRANSIENT RAMAN PROCESS PROCESS

F1G. 52

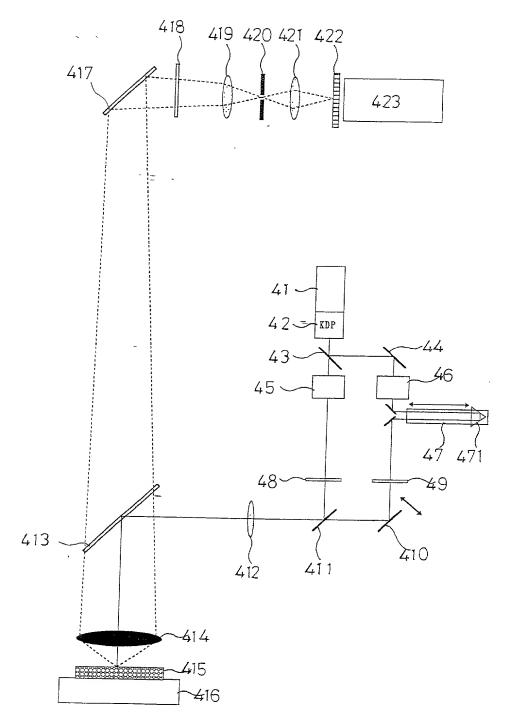
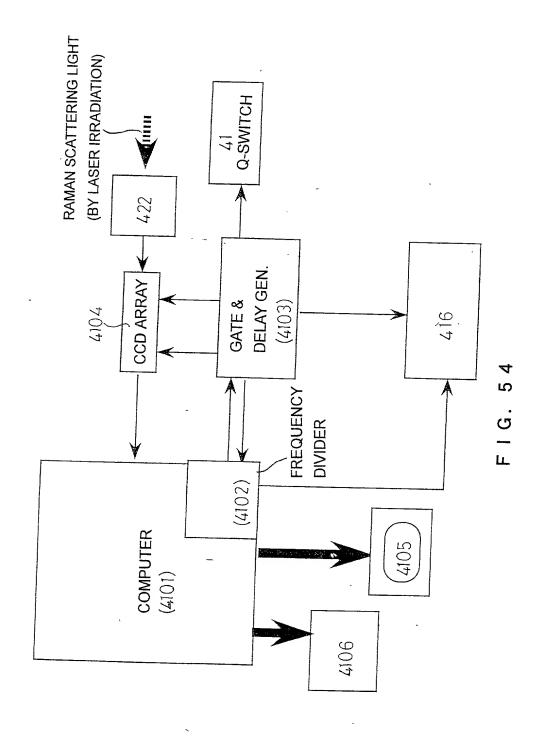
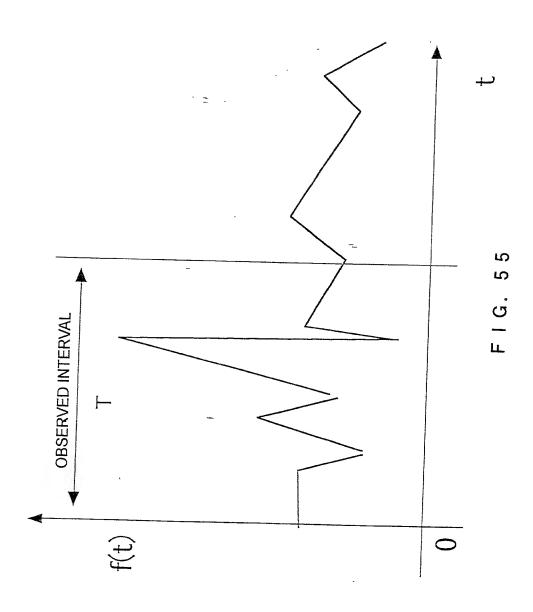
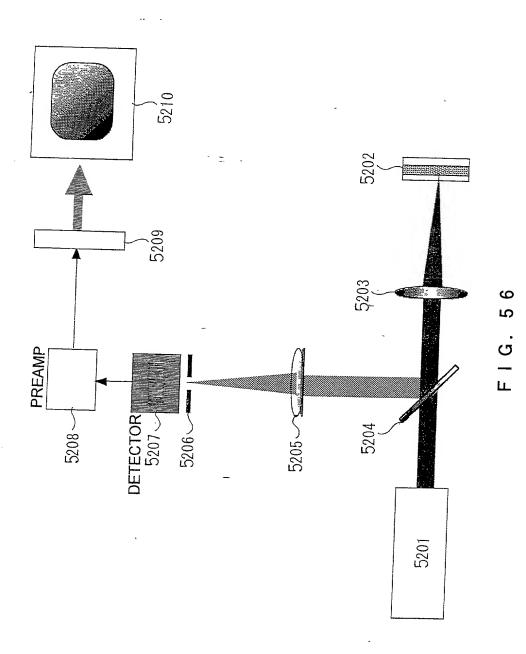


FIG. 53







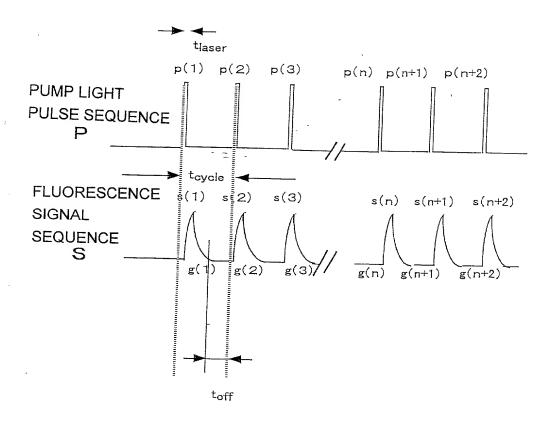


FIG. 57

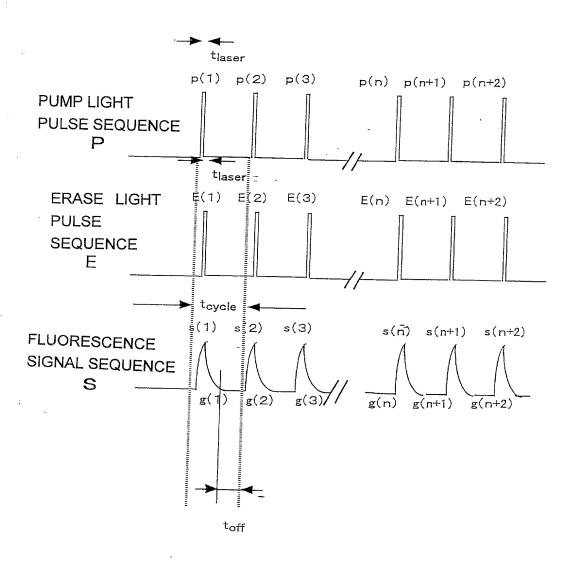


FIG. 58

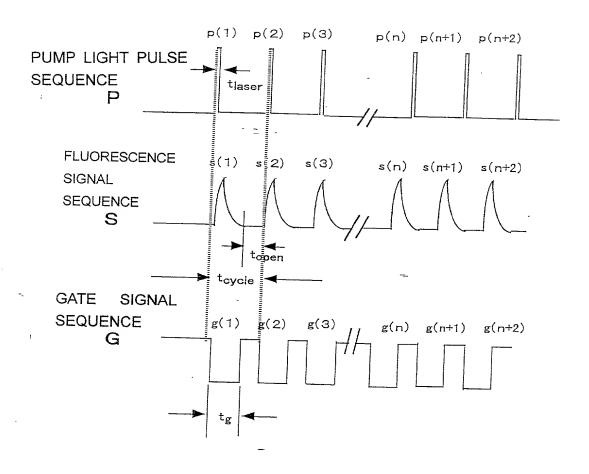


FIG. 59

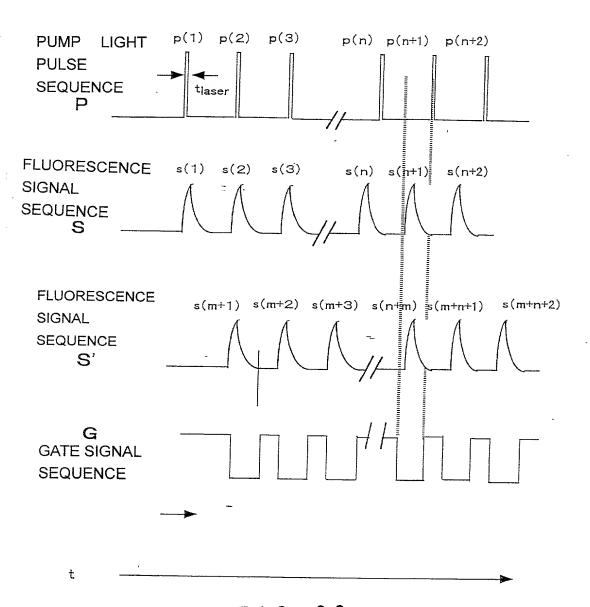
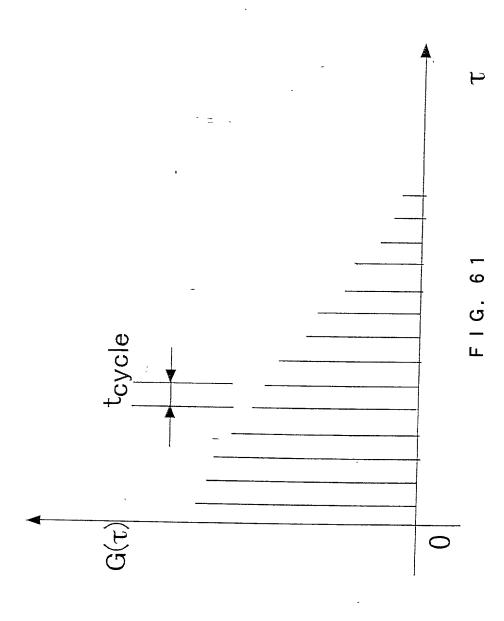
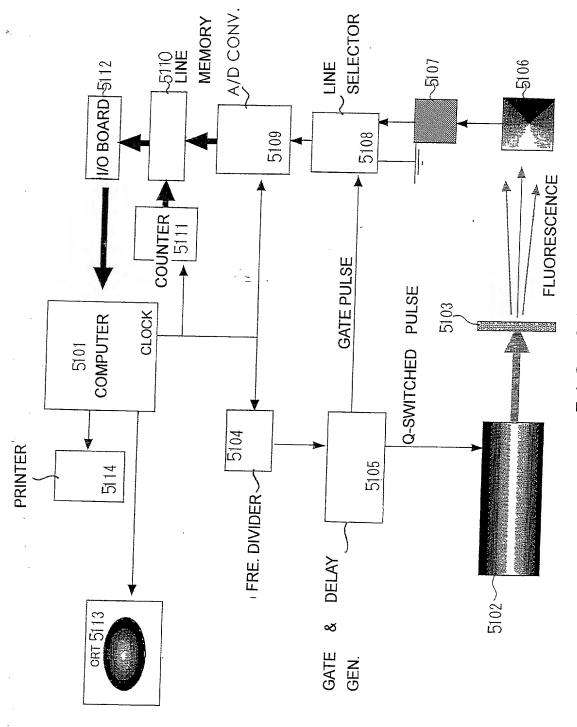
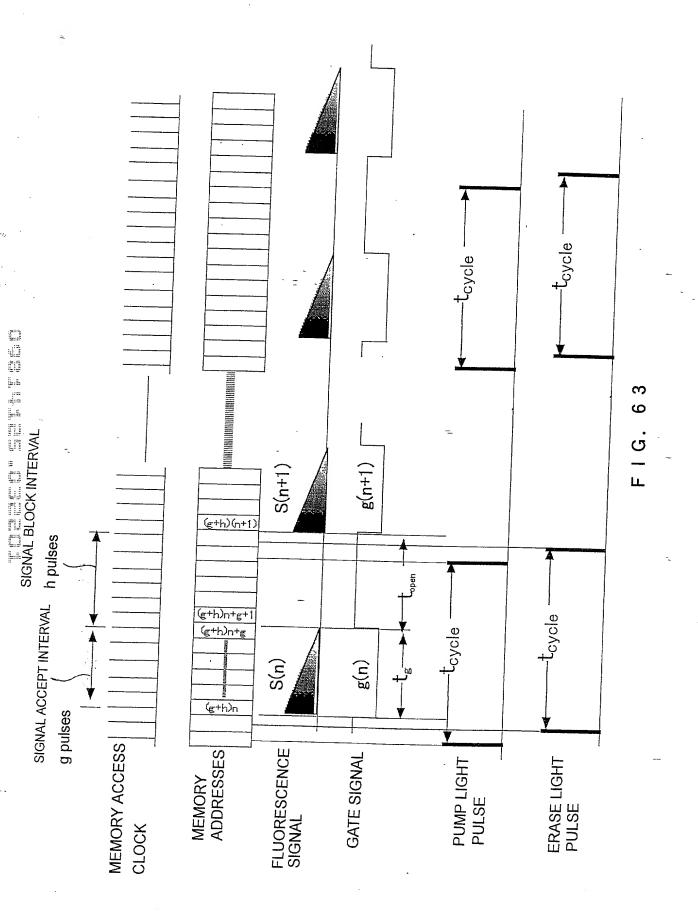


FIG. 60





F I G. 62



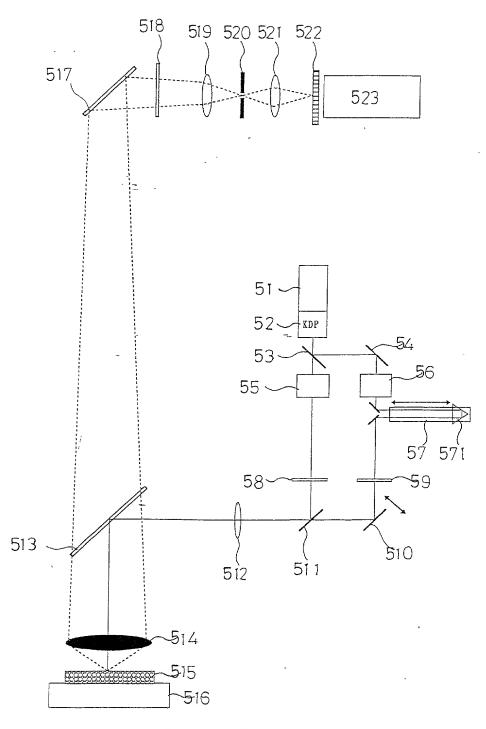


FIG. 64